

PATENT

I hereby certify that on the date specified below, this correspondence is being deposited with the United States Postal Service as first-class mail in an envelope addressed to Mail Stop Issue Fee, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

July 31, 2007  
Date

Stephen E. Meeny  
Ayesha J. Shaikh

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Appl. No. : 09/824,849	Confirmation No. : 9964
Applicant : Simon Jacobs	
Filed : April 2, 2001	Attorney Docket No.: 500745.01
Art Unit : 3623	Customer No. : 27,076
Examiner : Romain Jeanty	
Title : METHODS AND SYSTEMS FOR SCHEDULING COMPLEX WORK ORDERS FOR A WORKFORCE OF MOBILE SERVICE TECHNICIANS	

**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT**

Mail Stop Issue Fee  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

In accordance with 37 C.F.R. §§ 1.56 and 1.97 through 1.98, applicant wishes to make known to the Patent and Trademark Office the references set forth on the attached form PTO-1449 (copies of the cited references, as required under 37 C.F.R. § 1.98, are enclosed). Although the aforesaid references are made known to the Patent and Trademark Office in compliance with applicant's duty to disclose all information he is aware of which is believed relevant to the examination of the above-identified application, applicant believes that his invention is patentable.

06/02/2007-REFKADU1 00000002 501265 08824849

01 FC:1806 180.00-DA

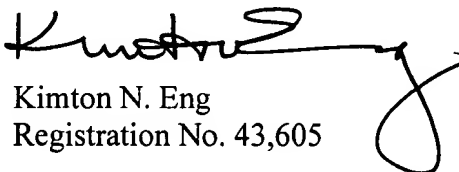
I hereby certify that no item set forth on the attached form PTO-1449 was first cited in a communication from a foreign patent office in a counterpart foreign application, and, to our knowledge, after making reasonable inquiry, no item of information set forth on the attached form PTO-1449 was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this Supplemental Information Disclosure Statement.

A fee of \$180 is submitted in accordance with 37 C.F.R. § 1.97(d). The Commissioner is authorized to charge any other fees which may be required, or credit any overpayment to Deposit Account No. 50-1266. A duplicate copy of this sheet is enclosed.

Please acknowledge receipt of this Supplemental Information Disclosure Statement and kindly make the cited references of record in the above-identified application.

Respectfully submitted,

DORSEY & WHITNEY LLP

  
Kimton N. Eng  
Registration No. 43,605

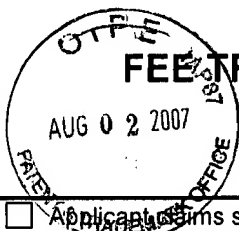
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Enclosures:

Postcard  
Check  
Fee Transmittal Sheet (+ copy)  
Copy of Supplemental Information Disclosure Statement  
Form PTO-1449  
Cited References (12)

1420 Fifth Avenue, Suite 3400  
Seattle, WA 98101  
Telephone (206) 903-8800  
Facsimile (206) 903-8820

Effective on 12/08/04



# **FEE TRANSMITTAL SHEET (FY 2006)**

☐ Applicant claims small entity status (see 37 C.F.R. 1.27)

## **Complete if Known**

Application No.	09/824,849
Filing Date	April 2, 2001
First Inventor	Simon Jacobs
Group Art Unit	3623
Examiner Name	Romain Jeanty
Atty. Docket Number	500745.01

## **METHOD OF PAYMENT (Check One)**

☒ The Director is hereby authorized to charge any additional fee required under 37 C.F.R. §§ 1.16 and 1.17 and 1.136(a)(3) and credit any over payments to Deposit Account No. **50-1266**; Deposit Account Name: **DORSEY & WHITNEY LLP**.

☒ Check Enclosed.

### **Extra Claim Fees**

Current Claims	Prior	Extra	Fee	Fee Paid
Total	- 20	=	x \$	= \$
Ind.	- 3	=	x \$	= \$
Multiple Dependent Claims		=	x \$	= \$
<b>Subtotal (Extra Claims)</b>				<b>\$0</b>

### **Petition Fee Under 37 CFR 1.17(f), (g), & (h)**

Enclosed is a Petition filed under 37 CFR as indicated below:

☐ Petition Fee under 37 CFR 1.17(f) **Fee \$400**

§ 1.53(e) to accord a filing date.  
 § 1.57(a) to accord a filing date.  
 § 1.182 for decision on a question not provided for.  
 § 1.183 to suspend the rules.  
 § 1.378(e) for reconsideration of decision on petition refusing delayed payment of maintenance fee in expired patent.  
 § 1.174(b) to accord a filing date to an application under §1.740 for extension of patent term.

☐ Petition Fee under 37 CFR 1.17(g) **Fee \$200**

§ 1.12 for access to an assignment record.  
 § 1.14 for access to an application.  
 § 1.47 for filing by other than all inventors or person not the inventor.  
 § 1.59 for expungement of information.  
 § 1.103(a) to suspend action in an application.  
 § 1.136(b) for review of a request for ext. of time when §1.136(a) not avail.  
 § 1.295 for review of refusal to publish a statutory invention registration.  
 § 1.296 to withdraw a req. for pub. after notice of intent to publish issued.  
 § 1.377 for review of decision refusing to accept a maintenance fee filed prior to expiration of a patent.

§ 1.550(c) for request for ext. of time in *ex parte* reexam. proceedings.  
 § 1.956 for request for ext. of time in *ex parte* reexam. proceedings.  
 § 5.12 for expedited handling of foreign filing license.  
 § 5.15 for changing the scope of a license.  
 § 1.5.25 for retroactive license.

☐ Petition Fee under 37 CFR 1.17(h) **Fee \$130**

§ 1.19(g) to request documents in a form other than provided in this part.  
 § 1.84 for accepting color drawings or photographs.  
 § 1.91 for entry of a model or exhibit.  
 § 1.102(d) to make an application special.  
 § 1.138(c) to expressly abandon an application to avoid publication.  
 § 1.313 to withdraw an application from issue.  
 § 1.314 to defer issuance of a patent.

## **FEE CALCULATION (Continued)**

### **3. ADDITIONAL FEES**

Large Entity Fee	Small Entity Fee	Fee Description	Fee paid
50	25	Surcharge - late provisional filing fee or cover sheet	\$
130	65	Surcharge - Late nonprovisional filing fee or oath	\$
180	180	Submission of IDS	\$180
40	40	Recording each patent assignment per property (times number of properties)	\$
120	60	Extension for reply within first month	\$
450	225	Extension for reply within second month	\$
1,020	510	Extension for reply within third month	\$
1,590	795	Extension for reply within fourth month	\$
2,160	1,080	Extension for reply within fifth month	\$
790	395	Submission After Final 1.129	\$
500	250	Notice of Appeal	\$
500	250	Filing a brief in support of an appeal	\$
1,000	500	Request for oral hearing	\$
130	65	Terminal Disclaimer Fee	\$
800	400	Design Issue Fee	\$
790	395	Request for Continued Examination (RCE)	\$
130		Request for voluntary publication or republication	\$
500	250	Petition to Revive - unavoidable	\$
1,500	750	Petition to Revive - unintentional	\$
200		Filing for patent term adjustment	\$
400		Request for reinstatement of term reduced	\$
1,120		Extension of term of patent	\$

OTHER FEE  
(specify)

**Subtotal (Additional Fees) \$180**

**Total Amount of Payment: \$180**

Submitted by:

CUSTOMER NUMBER  
**27,076**

DORSEY & WHITNEY LLP

1420 Fifth Avenue, Suite 3400  
 Seattle, WA 98101-4010  
 (206) 903-8800 phone / (206) 903-8820 fax

Name: Kimton N. Eng

Reg. No.: 43,605

Signature:

Date:

*July 31, 2007*

FORM PTO-1449  
(REV.7-80)U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.  
500745.01APPLICATION NO.  
09/824,849**INFORMATION DISCLOSURE STATEMENT**

(Draw separate sheets if necessary)

APPLICANT(S)  
Simon JacobsFILING DATE  
April 2, 2001GROUP ART UNIT  
3623**U.S. PATENT DOCUMENTS**

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	5,113,380	05/12/92	Levine	368	10	
	AB	5,289,531	02/22/94	Levine	379	93	
	AC	5,774,867	06/30/98	Fitzpatrick et al.	705	8	
	AD	6,088,626	07/11/00	Lilly et al.	700	100	
	AE	6,219,412 B1	04/17/01	Wellner et al.	379	202	
	AF	7,127,412 B2	10/24/06	Powell et al.	705	9	
	AG						

**FOREIGN PATENT DOCUMENTS**

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	AH							
	AI							

**OTHER PRIOR ART** (Including Author, Title, Date, Pertinent Pages, Etc.)

	AJ	Balakrishnan, N., "Simple Heuristics for the Vehicle Routeing Problem with Soft Time Windows", The Journal of the Operational Research Society, Vol. 44, No. 3, March 1993. pp. 279-287.
	AK	Ferland, J. et al., "Vehicles scheduling with sliding time windows", www.sciencedirect.com, European Journal of Operational Research, Vol. 38, Issue 2, January 1989. Two pages.
	AL	Johns, S., "Heuristics to Schedule Service Engineers Within Time Windows", Journal of the Operational Research Society, Vol. 46, No. 3, 1995. pp 339-346.
	AM	Larsen, A., "The Dynamic Vehicle Routing Problem", Lyngby 2000. pp. i-192.
	AN	Liu, F. et al., "A route-neighborhood-based metaheuristic for vehicle routing problem with time windows", European journal of Research, Vol. 118, 1999. pp. 485-504.
	AO	Smith, S., "Reactive Scheduling Systems", Center for Integrated Manufacturing Decision Systems, The Robotics Institute, Carnegie Mellon University, Intelligent Systems, 1994. pp. 1-38.

EXAMINER

DATE CONSIDERED

\* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).